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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/551,853

09/21/2006

Gerd Scheffel

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EXAMINER

COSIMANO, EDWARD R

ART UNIT

PAPER NUMBER

2863

MAIL DATE

DELIVERY MODE

07/13/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/551,853

Applicant(s)

SCHEFFEL, GERD

Examiner

Edward R. Cosimano

Art Unit

2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) none is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-17 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 March 2009 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-85/86)
Paper No(s)/Mail Date 03/18/2009
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

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1. When preparing this Office action the examiner considers the instant application to include:

A) the Oath/Declaration filed on 21 September 2006 which is acceptable to the examiner;

B) the amended Abstract filed on 03 October 2005 which is acceptable to the examiner;

C) figures 1, 2, 3 & 4 of the set of drawings containing 2 sheets of 4 figures comprising figures 1, 2, 3 & 4 as presented in the set of drawings filed on 18 March 2009 where the content of figures 1, 2, 3 & 4 of the above set of drawings is acceptable to the examiner;

D) the written description as filed on 03 October 2005 and amended on 03 October 2005 and amended on 18 March 2009; and

E) the set of claims as filed on 18 March 2009.

2. Applicant's claim for the benefit of an earlier filing date pursuant to 35 U.S.C. 365(c) and 35 U.S.C. 371 are acknowledged.

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

4. The examiner has considered the prior art cited in the base applications.

5. The examiner has approved the proposed changes to figures 1, 2, 3 & 4 of the drawings as filed on 18 March 2009.

6. The drawings filed on 18 March 2009 are objected to because:

A) The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the:

(1) structures of claim 17;

must be shown or the features canceled from the claims. No new matter should be entered.

6.1 Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing

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should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

7. The disclosure is objected to because of the following informalities:

A) the written description fails to comply with 37 CFR 1.75(d)(1) since the written description fails to describe an invention which includes:

(1) the subject matter of claim 17 in regard to each of the recited structures;

and therefore the claimed subject matter lacks antecedent basis in the written description as required by 37 CFR 1.75(d)(1).

7.1 Appropriate correction is required.

8. This application is in condition for allowance except for the following formal matters:

A) see the above objections as set forth above in sections 6 & 7.

8.1 Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

8.2 A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

9. Response to applicant's arguments.

9.1 The objections and rejection that have not been repeated here in have been over come by applicant's last response.

10. The following is a statement of reasons for the indication of allowable subject matter:

A) the prior art, for example:

(1) either Tate (5,159,525 or 5,343,757) discloses a machine/process that provides the useful and beneficial function of sensing the pressure with in an

enclosed space in which a pressure sensing element that is exposed to the pressure with in the enclosed space. The sensed pressure may then be monitored outside of the enclosed space by using electrical conductors and electrical contacts that are connected between the pressure sensing element with in the enclosed space and the out side monitoring equipment.

(2) either Kremidas (5,174,158 or 5,224,384 or 5,303,593 or WO 94/10548 A1 or 5,317,920 or 5,319,980) discloses a machine/process that provides the useful and beneficial function of sensing the pressure with in an enclosed space defined by an enclosure structure in which a pressure sensing element, that is mounted on a circuit board that has been clamped between the two halves of the enclosure structure, is exposed to the pressure with in the enclosed space. The sensed pressure may then be monitored outside of the enclosed space by using electrical conductors and electrical contacts that are connected between the pressure sensing element with in the enclosed space and the out side monitoring equipment.

(3) Mast et al (7,363,819) discloses a machine/process that provides the useful and beneficial function of detecting and transmitting test data from within a pressurized housing comprising a pressure chamber that is filled with a homogeneously pressurized high-pressure fluid to the outside environment using conductors printed on a circuit board between a sensing element within the pressure chamber to electrical contacts located outside of the pressure chamber. In this machine/process it is noted that both faces of circuit board are subjected to the ambient pressure with in the pressure chamber and at least one portion of the circuit board extends from with in the pressurized chamber to the outside of the housing via two halves of the housing that when sealed clamp and support the circuit board between the two halves of the housing that encloses the pressure chamber.

B) however, the prior art does not fairly teach or suggest in regard to claim 1 a machine in claim 1 that provides the useful and beneficial function of externally accessing sensing data/information obtained by a sensing element that is enclosed with in

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a pressurized space by providing structures in claim 1 that perform at least the functions of:

(1) enclosing a sensing element contained on at least part of a printed circuit board (PCB) within the enclosed homogeneously pressurized chamber of a pressurized housing by clamping the PCB between the two halves of the housing in such a fashion that:

(1a) both sides of the sensing element are exposed to the pressure within the homogeneously pressurized chamber of a pressurized housing;

(1b) at least part of the PCB extends both within homogeneously pressurized chamber of a pressurized housing and extends outside of the pressurized housing; and

(1c) the radial forces that are exerted on the PCB when the PCB is under pressure are absorbed; and

(2) using printed strip conductors on the PCB that extend on the PCB from the sensing element that is located within homogeneously pressurized chamber of a pressurized housing to a contact point that is on the outside of the pressurized housing.

Claims 2-19, which depend from claim 1, are allowable for the same reason.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward R. Cosimano whose telephone number is 571-272-0571. The examiner can normally be reached on 571-272-0571 from 7:30am to 4:00pm (Eastern Time).

11.1 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn, can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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11.2 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ERC

07/09/2009

**/Edward Cosimano/
Primary Examiner Unit 2863**